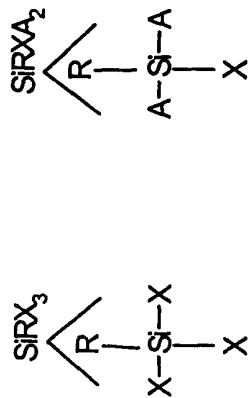
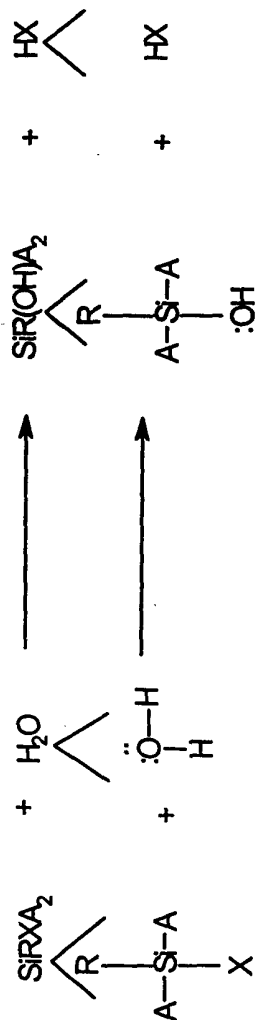


FIGURE 1: REPRESENTATIVE ORGANOSILANES



R = functional group of chemical interest  
 A = non-reactive group  
 X = hydrolyzable group

FIGURE 2: HYDROLYSIS OF AN ORGANOSILANE TO PRODUCE AN ORGANOSILANOL



COPY OF PAPERS  
 ORIGINALLY FILED

FIGURE 3: SILANOL CONDENSATION REACTION

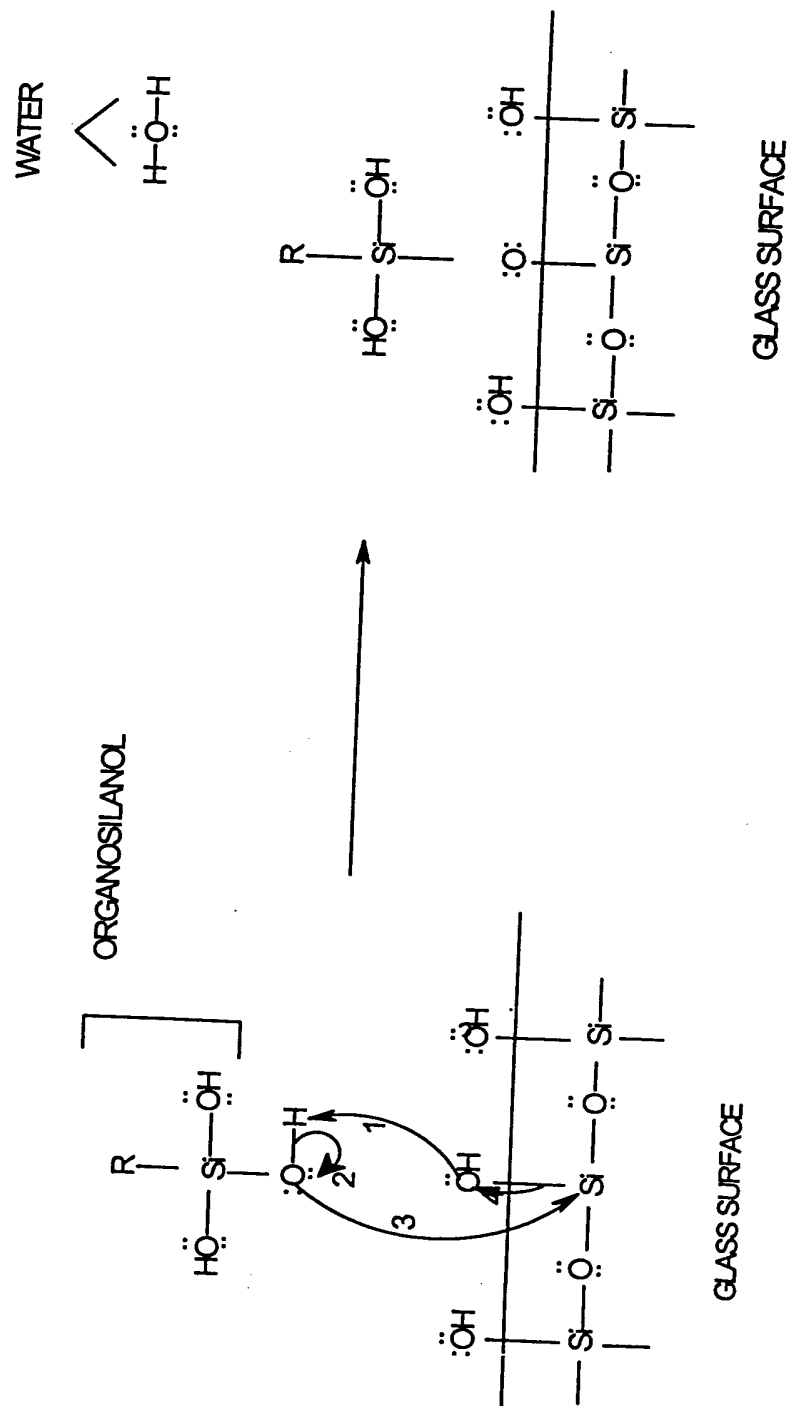
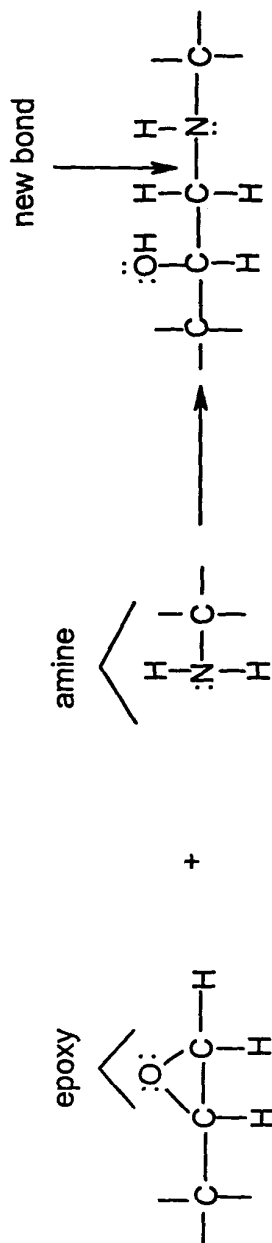
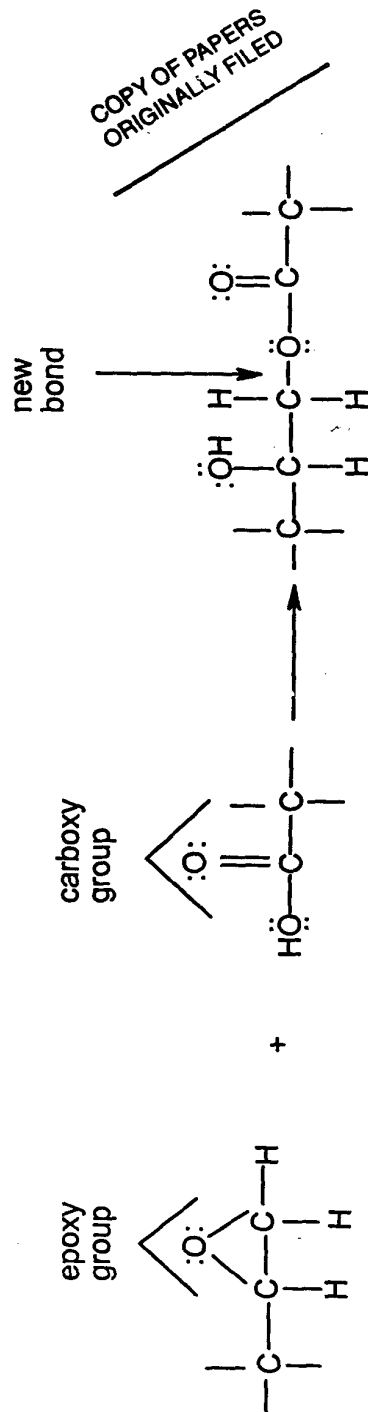


FIGURE 4: REACTIONS OF EPOXY GROUPS

A: With an amine group

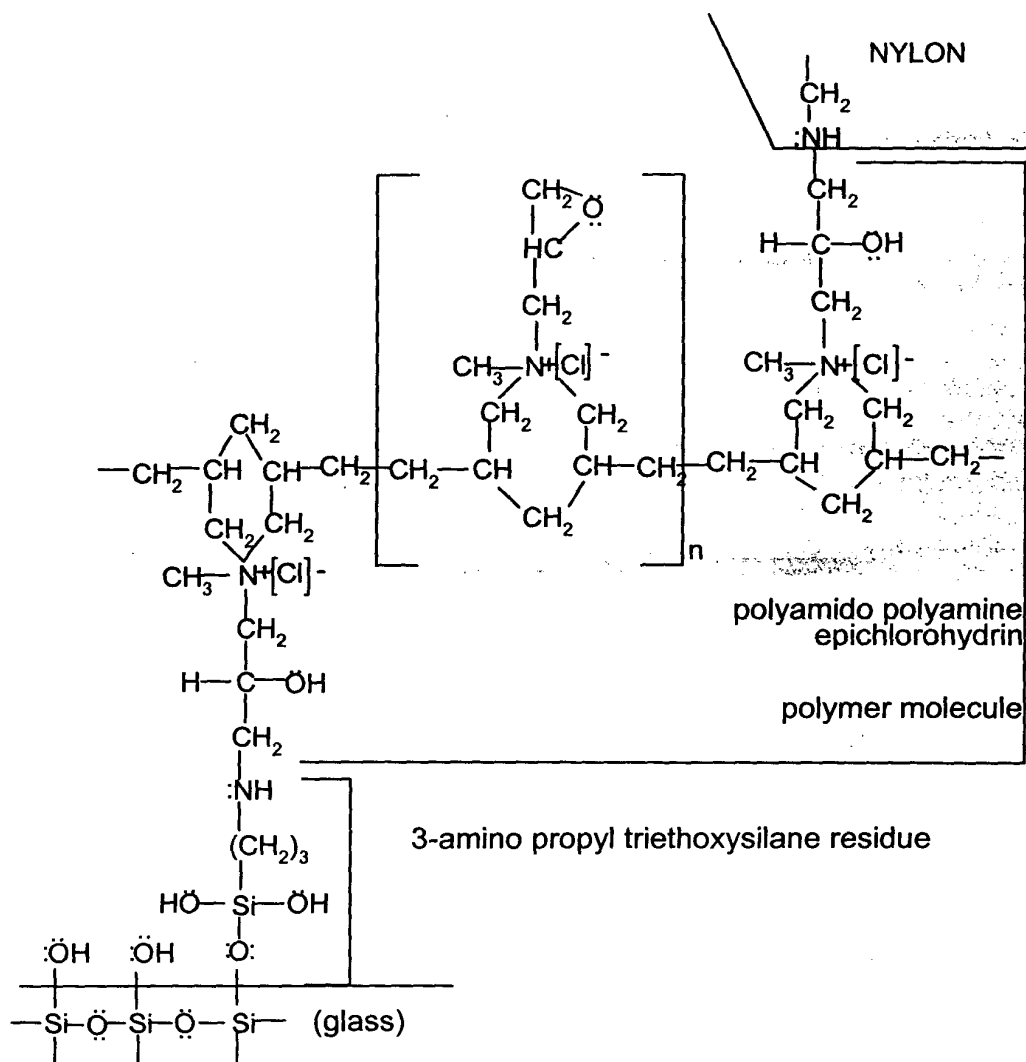


B: With a carboxyl group



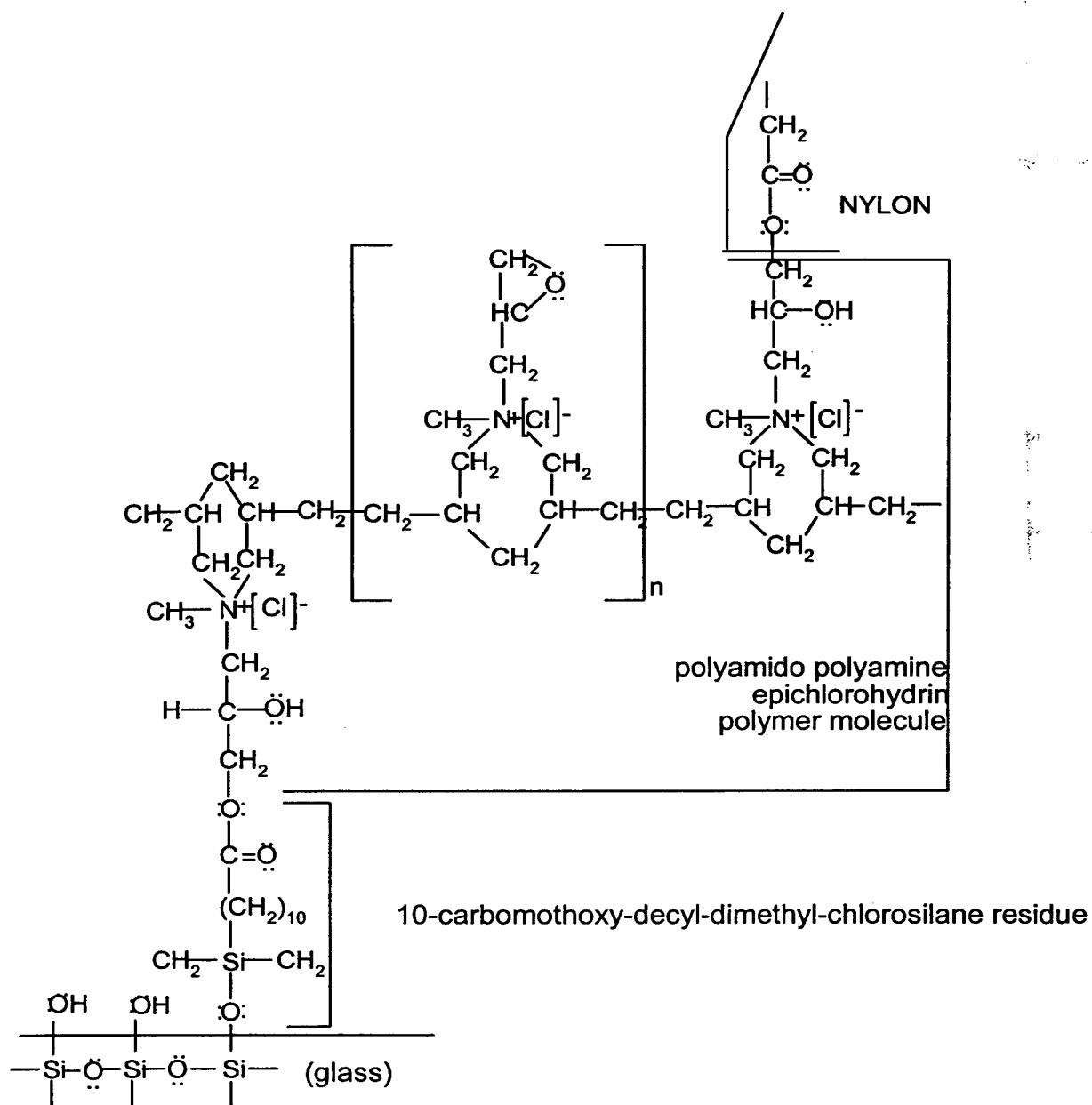
COPY OF PAPERS  
ORIGINALLY FILED

FIGURE 5A: Bond using 3-Amino propyl triethoxysilane and polyamido polyamine epichlorohydrin polymer.



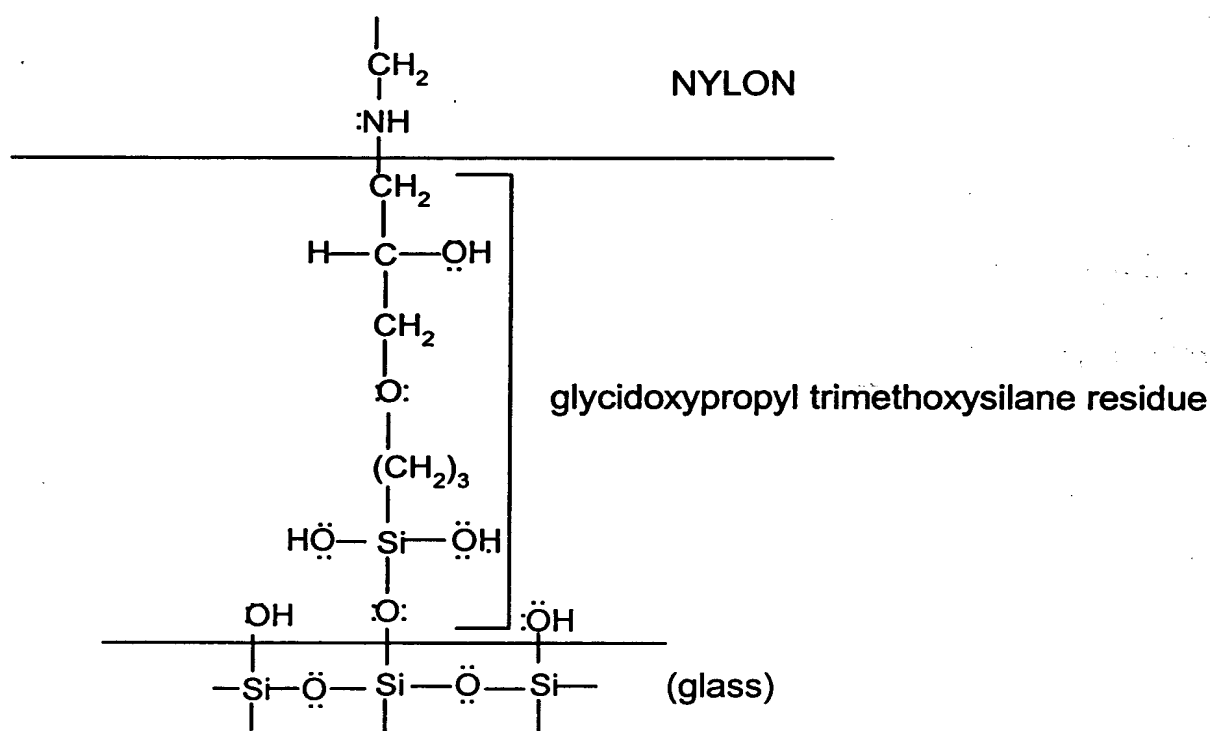
COPY OF PAPERS  
ORIGINALLY FILED

FIGURE 5B: Bond using 10-carbomethoxy-decyl-dimethyl chlorosilane and polyamido polyamine epichlorohydrin polymer.



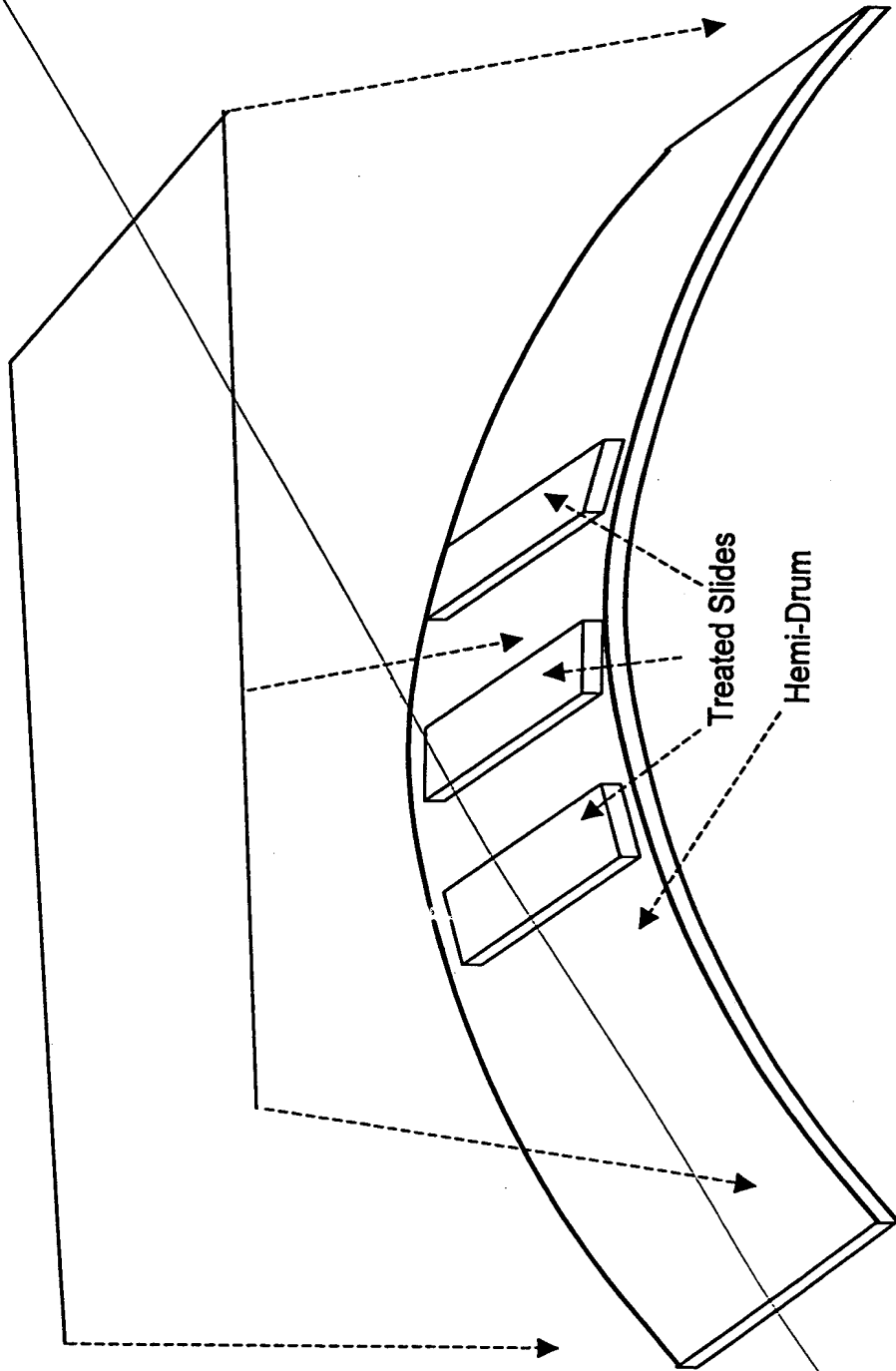
COPY OF PAPERS  
ORIGINALLY FILED

**FIGURE 5C:** Bond using glycidoxypopyl trimethoxysilane



COPY OF PAPERS  
ORIGINALLY FILED

Figure 6.



COPY OF PAPERS  
ORIGINALLY FILED

Figure 7.

